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Evaluation of Analgesic Activity of Lotus seeds (*Nelumbo nucifera*) in Albino Rats

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Abstract

The present study was undertaken to assess the analgesic effect of red and white lotus (*Nelumbo nucifera)* seeds in albino rats. The analgesic action in acute pain model was studied by tail flick method. The methanolic extracts of lotus seeds were screened for phytochemical analysis and it's revealed the presence of all components excluding tannins. The Forty eight adult Sprague-Dawley rats were divided into six groups of eight each and maintained under ideal laboratory conditions. Group I was taken as control and group II treated with the standard drug diclofenac potassium @ 3mg/kg on 7th day of study. The methanolic extract of *Nelumbo nucifera* seeds of red and white varieties @ 400mg/kg and 600mg/kg were fed to group III, IV, V and VI respectively, for 7 days. It is observed that the both lotus seed extracts shows considerable analgesic effect in acute pain model which is less than the effect of Diclofenac group. The higher dose groups of lotus seed extracts (600mg/kg) were revealed more activity than their corresponding lower dose. While evaluating all groups, the higher dose group of white lotus seed (600mg/kg), exhibited more pronounced activity than other extracts.

Keywords: Analgesic activity, Lotus seeds, Tail Flick method, Pain.